



## ABSTRACT

A high output power inverter using a toroidal transformer, the inverter operating from a battery source, having, the toroidal transformer having a center-taped primary winding, the primary having a first end and a second end. A switching means for switching the first end and the second end of the transformer alternately to ground during alternate half cycles. A non-conductive interval being interposed between a first switch on-time and a second switch on-time. A control circuit for sensing the output voltage and for modulating the on-time of the switching means to maintain the output voltage within a predetermined range. An acoustic reference for a clock circuit, the clock circuit controlling the start of each power cycle. A current sense circuit for signaling overload when the on-voltage across the switching means exceeds a predetermined threshold. A shorting circuit for shorting the primary windings when the switching means is off.